

Work Order ID 77174

November-28-11 9:01:38 AM

77174

Page 1

Item ID: D412-706-011

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Fuel Purge Canister

Start Date: 28/11/2011 Start Qty: 1.00

1

Cust Item ID:

Required Date: 12/12/2011 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: M.L.J

Date: 11/11/20

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

DSI 9494

A B

DD 11.11.20

IIN-D412-706

A

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-706-011 CHG003

5/12/03/02

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

[Handwritten signature]

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

November-28-11 9:01:41 AM

Page 1

8

Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:E 04.12.03 Remove AN6289-6D; Change Qty of 924-6DKJ/JLM
REV: IPP
IPP Rev:F 08-05-14 revise comment in seq.17 /24 DD verified by:EC IPP rev G
10.01.18 per DSI9494 EC verified by:DD IPP Rev:H 10.03.23
as per IIN revA DD verified by:EC IPP Rev:I 10.05.10 as per chg003 DD verified :EC IPP REV K 11.06.17 AS PER CHG
002 JLM VERIFIED BY:ec

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2001-4 *D2001-4* Valve Assembly (1/4")		Manufactured	No			110	Each	4.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>					
				ST002				4					
				74033				4					
D3262-043 *D3262-043* Canister Assembly		Manufactured	No			110	Each	0.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>					
				ST144				2					
				74120				2					
D3264-1 *D3264-1* Bracket		Manufactured	No			110	Each	2.0000	2	2			
				<u>Location</u>				<u>Loc Qty</u>					
				ST144				2					
				74120				2					
D3297-1-0098 *D3297-1-0098* HOSE ASS'Y		Manufactured	No			110	Each	4.0000	1	1			
				<u>Location</u>				<u>Loc Qty</u>					
				ST194				4					
				75973				4					

74033

77591

75995

75973

12/3/11

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Page 2

Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

D3297-3-0085

Manufactured No

110

Each

4.0000

1

1

D3297-3-0085

HOSE ASS'Y

**

Location

Loc Qty

Loc Code

ST194

4

75972

4

75972

D3297-3-0210

Manufactured No

110

Each

4.0000

1

1

D3297-3-0210

HOSE ASS'Y

**

Location

Loc Qty

Loc Code

ST194

4

76204

4

76204

D4054-001

Manufactured No

110

Each

0.0000

1

1

D4054-001

Tube Assembly

**

D4054-003

Manufactured No

110

Each

0.0000

1

1

D4054-003

Tube Assembly

**

D3298-005

Manufactured No

110

Each

0.0000

1

1

D3298-005

Tube Assembly

**

D3298-007

Manufactured No

110

Each

0.0000

1

1

D3298-007

Tube Assembly

**

D4054-009

Manufactured No

110

Each

0.0000

1

1

D4054-009

Tube Assembly

**

D3299-7

Manufactured No

110

Each

0.0000

1

1

D3299-7

Fitting

**

75977

November-28-11 9:01:41 AM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Page 3

Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

D3299-3

Manufactured No

110

Each

2.0000

1 1

D3299-3

Fitting

**

75978

Location

Loc Qty

Loc Code

ST046

2

55530

2

D3299-5

Manufactured No

110

Each

3.0000

1 1

D3299-5

Fitting

**

Location

Loc Qty

Loc Code

ST047

3

55531

3

D3301-1

Manufactured No

110

Each

5.0000

1 1

D3301-1

Placard

**

Location

Loc Qty

Loc Code

ST047

5

73092

5

D3301-3

Manufactured No

110

Each

3.0000

1 1

D3301-3

Placard

**

Location

Loc Qty

Loc Code

ST047

3

73093

3

D3302-1

Manufactured No

110

Each

7.0000

1 1

D3302-1

Doubler

**

Location

Loc Qty

Loc Code

ST143

7

73094

7

November-28-11 9:01:41 AM

Shop Packet Print

Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

D3302-3

Manufactured No

110 Each

5.0000

1

1

D3302-3

Doubler

**

Location

Loc Qty

Loc Code

ST143

5

73095

5

110 Each

9.0000

2

2

D3329-1

Manufactured No

D3329-1

Bushing

**

Location

Loc Qty

Loc Code

ST048

9

73096

9

110 Each

886.0000

4

4

AN3-5A

Purchased No

AN3-5A

Bolt

**

Location

Loc Qty

Loc Code

ST350

886

115371

46

117423

340

118626

300

119355

200

110 Each

10.0000

1

1

AN814-8D

Purchased No

AN814-8D

Plug

**

Location

Loc Qty

Loc Code

ST329

10

119000

10

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action . Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN815-6D

Purchased

No

110

Each

52.0000

2

2

**

AN815-6D

Union-M-Flare

Location

Loc Qty

Loc Code

ST324

52

119396

12

119433

20

119438

20

119396

AN815-8D

Purchased

No

110

Each

6.0000

1

1

**

AN815-8D

Union-M-Flare

Location

Loc Qty

Loc Code

ST324

4

119546

4

ST329

2

118840

2

118840

AN832-6D

Purchased

No

110

Each

14.0000

1

1

**

AN832-6D

UNION

Location

Loc Qty

Loc Code

ST332

14

119014

14

119014

AN833-6D

Purchased

No

110

Each

11.0000

1

1

**

AN833-6D

Elbow, Bulkhead-M-Flare

Location

Loc Qty

Loc Code

ST327

5

119546

5

ST333

6

118840

6

118840

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN833-8D

Purchased

No

110

Each

4.0000

1

1

**

AN833-8D

ELBOW

Location

Loc Qty

Loc Code

ST333

4

118823

4

118823

AN924-6D

Purchased

No

110

Each

24.0000

4

4

**

AN924-6D

Nut

Location

Loc Qty

Loc Code

ST329

24

119433

4

119436

20

119436

AN924-8D

Purchased

No

110

Each

10.0000

1

1

**

AN924-8D

NUT

Location

Loc Qty

Loc Code

ST329

10

119510

10

119510

AN938-6D

Purchased

No

110

Each

11.0000

1

1

**

AN938-6D

Tee

Location

Loc Qty

Loc Code

ST330

11

101925

1

119510

10

119510

AN960JD10L

NAS1149D0332J

Purchased

No

110

Each

0.0000

4

4

**

AN960JD10L

Washer

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Work Order ID: 77174

Parent Item: D412-706-011

Parent Item Name: Fuel Purge Canister

77174

D412-706-011

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN960JD10 NAS1149D0363J Purchased

No

110

Each

0.0000

8

8

AN960.ID10

Washer

**

120308

AN960JD916 NAS1149D0963J Purchased

No

110

Each

0.0000

2

2

AN960.ID916

WASHER

**

119546

MS21042L3 Purchased

No

110

Each

7,957.000

4

4

MS21042I 3

Nut

**

119017

Location

Loc Qty

Loc Code

ST300

213

117441

16

117885

35

118451

5

118927

157

ST516

5994

119017

5994

ST518

1750

119075

1750

119017

MS21919-WDG9

Purchased

No

110

Each

12.0000

2

2

MS21919-WDG9

Clamp

**

1120839

Location

Loc Qty

Loc Code

ST307

12

118686

12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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November-28-11 9:01:41 AM

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Work Order ID: 77174

77174

Parent Item: D412-706-011

D412-706-011

Parent Item Name: Fuel Purge Canister

Start Date: 28/11/2011

Required Date: 12/12/2011

Start Qty: 1.00

Required Qty: 1.00

MS21920-42

Purchased

No

110

Each

24.0000

2

2

MS21920-42

CLAMP(per MIL-DTL-8783C)

**

Location

Loc Qty

Loc Code

ST451

24

119659

14

119673

10

119659

MS29512-06

Purchased

No

110

Each

26.0000

7

7

MS29512-06

O-RING

**

120123

Location

Loc Qty

Loc Code

ST294

26

119124

11

119537

15

MS29512-08

Purchased

No

110

Each

16.0000

3

3

MS29512-08

O-RING

**

Location

Loc Qty

Loc Code

ST294

16

113706

1

119510

15

119510

MS35489-16

Purchased

No

110

Each

18.0000

1

1

MS35489-16

GROMMET

**

Location

Loc Qty

Loc Code

ST295

18

118006

18

118006

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-706 REV. A AND ICA-D412-706 REV. 0

REF TCCA STC: SH04-54
REF FAA STC: SR02055NY
REF EASA STC: EASA.IM.R.S.01180

DESCRIPTION:

AT CHG 002, THE D412-706-011 FUEL PURGE CANISTER INSTALLATION HAS BEEN MODIFIED WITH LARGER VENT LINES TO ELIMINATE BACK PRESSURE THAT MAY OCCUR WHEN STARTING THE SECOND ENGINE IF THE CANISTER HAS NOT BEEN PROPERLY DRAINED. THE BACK PRESSURE IS EVIDENCED BY AN ONGOING VAPOR DISCHARGE FROM THE CANISTER VENT AT LOW TO MEDIUM RPM WHILE STARTING THE 2nd ENGINE. THE UPDATED PARTS LIST IS SHOWN BELOW:

IS

QTY -011	PART NUMBER	DESCRIPTION
X	D412-706-011	FUEL PURGE CANISTER INSTALLATION (212/412)
1	D2001-4	VALVE ASSEMBLY
1	D3262-043	CANISTER ASSEMBLY (WAS D3262-041)
2	D3264-1	BRACKET
1	D3297-1-0098	HOSE ASSEMBLY
1	D3297-3-0085	HOSE ASSEMBLY
1	D3297-3-0210	HOSE ASSEMBLY
1	D4054-001	TUBE ASSEMBLY (WAS D3298-001)
1	D4054-003	TUBE ASSEMBLY (WAS D3298-003)
1	D3298-005	TUBE ASSEMBLY
1	D3298-007	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY (WAS D3298-009)
1	D3299-7	FITTING (WAS 3299-1)
1	D3299-3	FITTING
1	D3299-5	FITTING
1	D3301-1	PLACARD
1	D3301-3	PLACARD
1	D3302-1	DOUBLER
1	D3302-3	DOUBLER
2	D3329-1	BUSHING

Continue on next sheet

NOT COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 77194

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: 
D. SHEPHERD (DE # 02)

DATE: 11.06.06
CERT. NO.: SH04-54
ISSUE NO.: 1

B	SHEET 2: D412-706-011 KIT: QTY(7) MS29512-06 WAS QTY(8), QTY(3) MS29512-08 WAS QTY(2), MS35489-16 WAS MS35489-11; DSI 9494-011 KIT P/L: ADDED AN814-8D PLUG AND MS35489-16 GROMMET, QTY(3) MS29512-08 O-RING WAS QTY(2). SHEET 3: AN814-8D PLUG WAS AN814-6D PLUG AND MS29512-08 WAS MS29512-06. REASON: NCR11-641.	MB	11.06.03
A	NEW ISSUE	RF	10.01.07
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	R	HAWKESBURY, ONTARIO, CANADA	
CHECKED	UP	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9494	SHEET 1 OF 3
APPROVED	CH	TITLE	SCALE
DE APPR.	CH	212/412 CANISTER UPGRADE KIT	NTS
DATE	11.06.03	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

M.C-5
11/11/28

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Continue from previous sheet

B	4	AN3-5A	BOLT	
	1	AN814-8D	PLUG	
	2	AN815-6D	UNION	
	1	AN815-8D	UNION	(WAS AN815-6D)
	1	AN832-6D	UNION	
	1	AN833-6D	ELBOW	
	1	AN833-8D	ELBOW	(WAS AN833-6D)
	4	AN924-6D	NUT	
	1	AN924-8D	NUT	(WAS AN924-6D)
	1	AN938-6D	TEE	
B	4	AN960JD10L	WASHER (OR NAS1149D0332J)	
	8	AN960JD10	WASHER (OR NAS1149D0363J)	
	2	AN960JD916	WASHER	
	4	MS21042L3	NUT	
	2	MS21919WDG9	CLAMP	
	2	MS21920-42	CLAMP	
	7	MS29512-06	O-RING	(WAS MS28778-6)
	3	MS29512-08	O-RING	(WAS MS28778-8)
	1	MS35489-16	GROMMET	

FOR CUSTOMERS WHO HAVE EXPERIENCED THIS PROBLEM IN SERVICE, THE DSI 9494-011 UPGRADE KIT IS AVAILABLE TO UPGRADE THE INSTALLATION FROM CHG 001 TO CHG 002.





QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9494-011	212/412 CANISTER UPGRADE KIT
1	D3262-043	CANISTER ASSEMBLY
1	D4054-001	TUBE ASSEMBLY
1	D4054-003	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY
1	D3299-7	FITTING
B	1	AN814-8D
	1	AN815-8D
	1	AN833-8D
	1	AN924-8D
	3	MS29512-08
B	1	MS35489-16

WEIGHT AND BALANCE:
NO CHANGE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 11.06.06
CERT. NO.: SH04-54
ISSUE NO.: 1

DESIGN	RF	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		DSI 9494	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		212/412 CANISTER UPGRADE KIT	NTS
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212/412

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

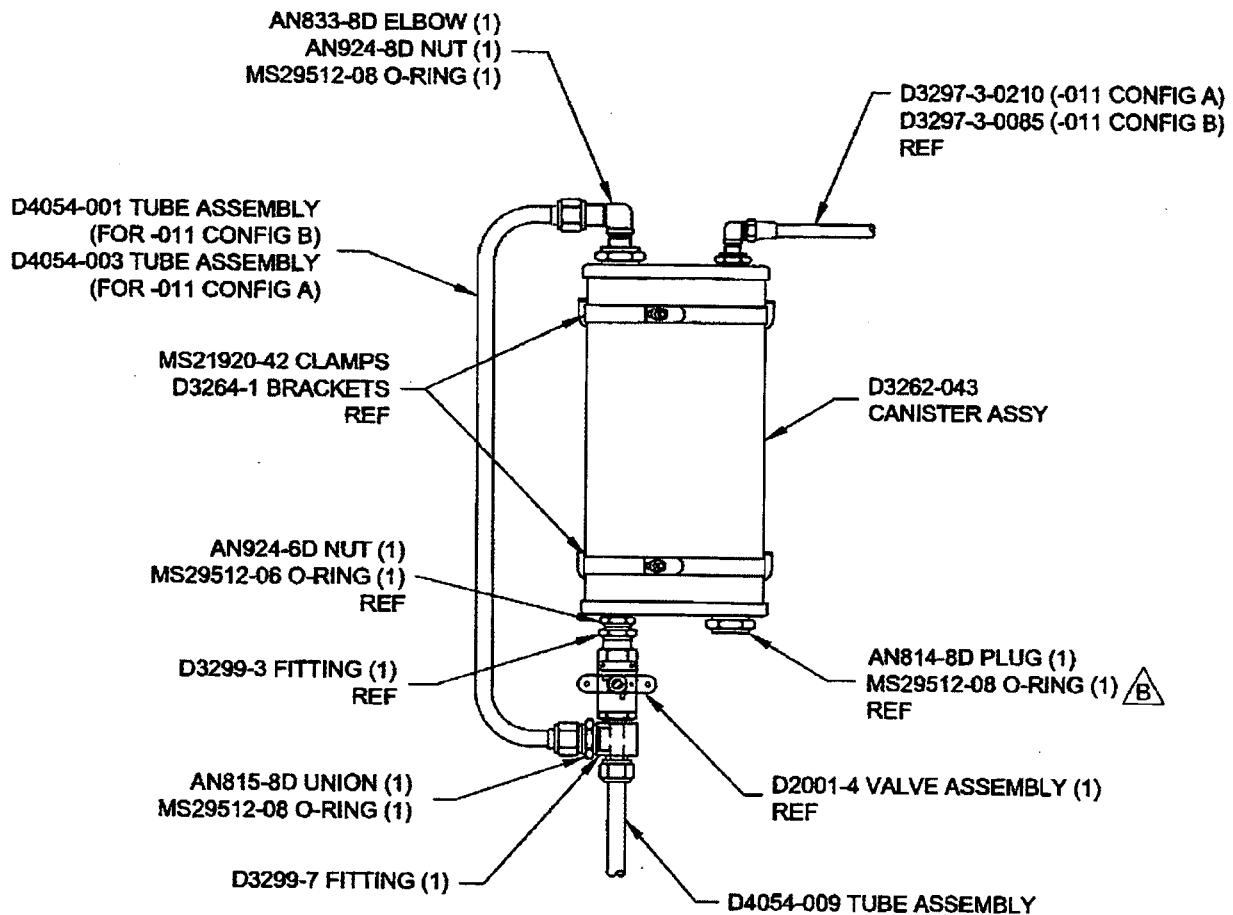





FIGURE 1. CANISTER ASSEMBLY
(-011 INSTALLATION AT CHG 002)

NOTE: FOR THE LARGER D4054-009 LINE, CUSTOMER MUST DRILL A $\varnothing 0.813$ HOLE AND INSTALL MS35489-16 GROMMET INSTEAD OF MS35489-11 GROMMET IN BELLY SKIN.

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 11.06.06
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DESIGN	RF	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9494	SHEET 3 OF 3
APPROVED		TITLE	SCALE
DE APPR.		212/412 CANISTER UPGRADE KIT	NTS
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Handwritten note: *Full*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IN D412-706 REV. A AND ICA-D412-706 REV. 0

REF TCCA STC: SH04-54

REF FAA STC: SR02055NY

REF. EASA STC: EASA.IM.R.S.01180

REFERENCE ONLY

DESCRIPTION:

AT CHG 002, THE D412-706-011 FUEL PURGE CANISTER INSTALLATION HAS BEEN MODIFIED WITH LARGER VENT LINES TO ELIMINATE BACK PRESSURE THAT MAY OCCUR WHEN STARTING THE SECOND ENGINE IF THE CANISTER HAS NOT BEEN PROPERLY DRAINED. THE BACK PRESSURE IS EVIDENCED BY AN ONGOING VAPOR DISCHARGE FROM THE CANISTER VENT AT LOW TO MEDIUM RPM WHILE STARTING THE 2nd ENGINE. THE UPDATED PARTS LIST IS SHOWN BELOW:

IS

QTY -011	PART NUMBER	DESCRIPTION
X	D412-706-011	FUEL PURGE CANISTER INSTALLATION (212/412)
1	D2001-4	VALVE ASSEMBLY
1	D3262-043	CANISTER ASSEMBLY (WAS D3262-041)
2	D3264-1	BRACKET
1	D3297-1-0098	HOSE ASSEMBLY
1	D3297-3-0085	HOSE ASSEMBLY
1	D3297-3-0210	HOSE ASSEMBLY
1	D4054-001	TUBE ASSEMBLY (WAS D3298-001)
1	D4054-003	TUBE ASSEMBLY (WAS D3298-003)
1	D3298-005	TUBE ASSEMBLY
1	D3298-007	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY (WAS D3298-009)
1	D3299-7	FITTING (WAS 3299-1)
1	D3299-3	FITTING
1	D3299-5	FITTING
1	D3301-1	PLACARD
1	D3301-3	PLACARD
1	D3302-1	DOUBLER
1	D3302-3	DOUBLER
2	D3329-1	BUSHING

Continue on next sheet

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO #01-Q-01

APPROVED

BY: 
D. SHEPHERD (DE #02)

DATE: 11.06.06
CERT. NO.: SH04-54
ISSUE NO.: 1

B	SHEET 2: D412-706-011 KIT: QTY(7) MS29512-06 WAS QTY(8), QTY(3) MS29512-08 WAS QTY(2), MS35489-16 WAS MS35489-11; DSI 9494-011 KIT P/L: ADDED AN814-8D PLUG AND MS35489-16 GROMMET, QTY(3) MS29512-08 O-RING WAS QTY(2). SHEET 3: AN814-8D PLUG WAS AN814-6D PLUG AND MS29512-08 WAS MS29512-06. REASON: NCR11-641.	MB	11.06.03
A	NEW ISSUE	RF	10.01.07
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	R	HAWKESBURY, ONTARIO, CANADA	
CHECKED	IP	DRAWING NO.	REV. B
MFG. APPR.	N/A	DSI 9494	SHEET 1 OF 3
APPROVED	CH	TITLE	SCALE
DE APPR.	CH	212/412 CANISTER UPGRADE KIT	
DATE	11.06.03	NTS	
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REFERENCE ONLY

Continue from previous sheet


B	4	AN3-5A	BOLT
	1	AN814-8D	PLUG
	2	AN815-6D	UNION
	1	AN815-8D	UNION (WAS AN815-6D)
	1	AN832-6D	UNION
	1	AN833-6D	ELBOW
	1	AN833-8D	ELBOW (WAS AN833-6D)
	4	AN924-6D	NUT
	1	AN924-8D	NUT (WAS AN924-6D)
	1	AN938-6D	TEE
B	4	AN960JD10L	WASHER (OR NAS1149D0332J)
	8	AN960JD10	WASHER (OR NAS1149D0363J)
	2	AN960JD916	WASHER
	4	MS21042L3	NUT
	2	MS21919WDG9	CLAMP
	2	MS21920-42	CLAMP
	7	MS29512-06	O-RING (WAS MS28778-6)
	3	MS29512-08	O-RING (WAS MS28778-8)
	1	MS35489-16	GROMMET

FOR CUSTOMERS WHO HAVE EXPERIENCED THIS PROBLEM IN SERVICE, THE DSI 9494-011 UPGRADE KIT IS AVAILABLE TO UPGRADE THE INSTALLATION FROM CHG 001 TO CHG 002.

QTY -011	PART NUMBER	DESCRIPTION
X	DSI 9494-011	212/412 CANISTER UPGRADE KIT
1	D3262-043	CANISTER ASSEMBLY
1	D4054-001	TUBE ASSEMBLY
1	D4054-003	TUBE ASSEMBLY
1	D4054-009	TUBE ASSEMBLY
1	D3299-7	FITTING
B	1	AN814-8D
	1	AN815-8D
	1	AN833-8D
	1	AN924-8D
B	3	MS29512-08
	1	MS35489-16

WEIGHT AND BALANCE:
NO CHANGE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)
DATE: 11.06.06
CERT. NO.: SH04-54
ISSUE NO.: 1

DESIGN	RE	DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		DSI 9494	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		212/412 CANISTER UPGRADE KIT	NTS
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